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RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/974,546

DATE: 11/28/2001 TIME: 11:03:05

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Output Set: N:\CRF3\11282001\1974546.raw

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•			SEQUENCE LISTING RAL INFORMATION:	
	3	(1) GENE	RAL INFORMATION:	
	5	(i)	APPLICANT: An, Gang	
	6		O'Hara, S. Mark	
	7		Ralph, David	
	8		Veltri, Robert	
	10	(ii)	TITLE OF INVENTION: BIOMARKERS AND TARGETS FOR DIAGNOSIS,	
	11		PROGNOSIS AND MANAGEMENT OF PROSTATE DISEAS	E
	13	, ,	NUMBER OF SEQUENCES: 87	
	15	(iv)	CORRESPONDENCE ADDRESS:	
	16		(A) ADDRESSEE: Arnold, White & Durkee	
	17		(B) STREET: P.O. Box 4433	
	18		(C) CITY: Houston	
	19		(D) STATE: Texas	
	20		(E) COUNTRY: USA	
	21		(F) ZIP: 77210	
	23	(V)	COMPUTER READABLE FORM:	
	24		(A) MEDIUM TYPE: Floppy disk	
	25		(B) COMPUTER: IBM PC compatible	
	26		(C) OPERATING SYSTEM: PC-DOS/MS-DOS	
	27		(D) SOFTWARE: PatentIn Release #1.0, Version #1.30	
	29	(vi)	CURRENT APPLICATION DATA:	
C>			(A) APPLICATION NUMBER: US/09/974,546	
C>	31		(B) FILING DATE: 10-Oct-2001	
	32		(C) CLASSIFICATION: Unknown	
	34	(vii)	PRIOR APPLICATION DATA:	
	35		(A) APPLICATION NUMBER: 09/097,199	
	36		(B) FILING DATE: 1998-06-12	
	38	(viii)	ATTORNEY/AGENT INFORMATION:	
	39		(A) NAME: Nakashima, Richard A.	
	40		(B) REGISTRATION NUMBER: P-42,023	
	41		(C) REFERENCE/DOCKET NUMBER: UROC:018	
	43	(ix)	TELECOMMUNICATION INFORMATION:	
	44		(A) TELEPHONE: (512) 418-3000	
ı	45		(B) TELEFAX: (512) 474-7577	
			RMATION FOR SEQ ID NO: 1:	
	50	(i)	SEQUENCE CHARACTERISTICS:	
	51		(A) LENGTH: 391 base pairs	
	52		(B) TYPE: nucleic acid	
	53		(C) STRANDEDNESS: single	
	54		(D) TOPOLOGY: linear	
	56		SEQUENCE DESCRIPTION: SEQ ID NO: 1:	_
				0
			GT CTCTACATCC CAAGAACAGA GAGTGAGTCT TCTTTATTTT CTTATCTCTG 12	
			AC AGTATTTGAT ATATAGTGTA GATACTATAA ATGCTTGCTA AACTTTGTCA 18	
	64	AATTCCAC.	AT TTTTAAAATA AAAATGAGAA TGAGCTTGTA GTCAACATGG CGTTTGTAAG 24	U

66 TTTGGAGTCT ATATATGGTA GATATACATA TTTTTAAATC TAAGTGCAAC TTTTCTCTTG

300

68 ATTATCTTGA AATGCCTTAT CATCTCCACA TTTGCTGTAG GCAGTAGTTT AGTGGGTCCA	360
70 TTATATCTGC CACACTGATT GTCTTAAATA A	391
73 (2) INFORMATION FOR SEQ ID NO: 2:	
75 (i) SEQUENCE CHARACTERISTICS: 76 (A) LENGTH: 614 base pairs	
76 (A) LENGTH: 614 base pairs 77 (B) TYPE: nucleic acid	
78 (C) STRANDEDNESS: single	
79 (D) TOPOLOGY: linear	
81 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:	
83 CAGTAGTGGC CCCAAATGCC AGGCTGCACT GATATTTATT GGATATAAGA CAAAGGGGCA	60
85 GGGTAAGGAA TGTGAACCAT CTCCAATAAT AGGTAAGGTC ACATGGGTCA TGTGTCCACT	120
87 GGACAGGGGG CCCTTCCCTG CCTGGCAGCA GAGGCAGAGA GAGAGAGAG AGAGAGAC	180
89 AGCTTATGCC ATTATTCTG CATATCAGAC ATTTAGTACT TTCACTAATT TGCTCCTGCT	240
91 ATCTAAAAGG CAGAGCCAGG TATACAGGAT GGAACATGAA AGCGGACTAG GAGCGTGACC	300
93 ACTGAAGCAC AGCATCACAG GGAGACAGGC CTCTGGATAC TGGCCGGGGG GCCCTGACTG	360
95 ATGTCAAGGC CCTCCACAAG AGTGGAGGAG TTAGTCTTCC TCTAAACTCC CCCGGGGGAA	420
97 AGGGAGGCTC CTTTTCCCAG TCTGCTAAGT AGTGGGTGTT TTTCCTTGAC ACTGATGCTA	480
99 CTGCTAGACC ATGGTCCACT TTGCAACAGG CATCTTCCCA GACACTGGTG TTACTGCTAG	540
101 ACCAAGCCCT CTGGTGGCCC TGTCCGGGCA TAAGAGAAGG CTCACACTCT TGTCTTCTGG	600
103 CCACTTCGCA CTAT	614
106 (2) INFORMATION FOR SEQ ID NO: 3:	
108 (i) SEQUENCE CHARACTERISTICS:	
109 (A) LENGTH: 757 base pairs	
110 (B) TYPE: nucleic acid	
111 (C) STRANDEDNESS: single	
112 (D) TOPOLOGY: linear	
114 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:	C 0
116 ACAACGACAC ATTCAGGAGT TAAATATTTA TCATCAAACA TTGGATTTTT CCTTAACGCT	60 120
118 AGAGATTGCT ACAAATCTTC TGAAGGGTCT CAATGGCTTC AGGCTAAGAA GAGATTTCTC 120 CCTGTTATAA GCAGCAAGAC AAATTAGCCA TTTCACTCTC AAACTTCACT AATGATCACA	180
120 CCTGTTATAA GCAGCAAGAC AAATTAGCCA TTTCACTCTC AAACTTCACT AATGATCACA 122 TTCTTTCCAA AAGGAACTCT AGAAGACCAA ATGCCCCGAG TTAAGAACAT CAAAACTAAC	240
122 TICTITICAA AAGGAACTCI AGAAGACCAA ATGCCCCGAG TTAAGAACAT CAAAACTAAC 124 CATCTGAAGA AACTTCCCAA GTGTAAGACT CTGCCATTAA AACATTACCG AGAGGGGACT	300
124 CATCHGARGA ARCTICCCAR GIGHARGACT CIGCCATTAL ARCATTACCG AGAGGGGACT 126 CAAACAGTCT TTTCTTCCCT TTGTCGTGTT TCTTTGCTCC CAGACCCAAG GCACTTGGCG	360
128 GACAGTACTT GATACAATAA TTTAAAAAGC ACCACTCCCT TCCCACTTTG TAAATACCCA	420
130 GAACTCTAAT TGGACCACCC TGAAGCTTAG GACCTACCAG CCATACAAAT AGTAAACTCT	480
132 GTCCACGATT CACTCATCTG TGTATTTTCT ATAGATGTTT ACTAGGCGTT TGTTATATAA	540
134 AAATACCCCG GCCAGGCACG GTGGCTCACG CCTGTAATCC CAGCACTTTG GGAGGTGGGT	600
136 GGATCACCTG AGGTCGGGAG TTCGAGACCA GCCTGACCAG CATGGTGGAA CCCCCATCTC	660
138 TACTAAAAAC ACAAAAAATT AGCCGGGCGT GGTGGCACAT GCCTGTAATC CCAGCTACTC	720
140 AGGAGGCTGA GGCGGAGAAT TGCTTGAACC CGGAAGG	757
143 (2) INFORMATION FOR SEQ ID NO: 4:	
145 (i) SEQUENCE CHARACTERISTICS:	
146 (A) LENGTH: 673 base pairs	
147 (B) TYPE: nucleic acid	•
148 (C) STRANDEDNESS: single	
149 (D) TOPOLOGY: linear	
151 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:	
153 CAGGACACAG AGTAAGATAC CCACTGACTT CTTGTGGTCT ACTTCCTGGG TGTTGTTTCA	60
155 ATGGGCTTTG TTATAACAGG ACTAGTCTTC TGTAAATACA ACTTGGTAAA TAGGATGAAA	120

	CATAACTTTG CGACAATTCA GTAGAAATAG GCATACAAAC CTGGGCCTGA TGACACTCAC	180
159	CTCCCCTTGG CTATAAACAT TACCCTACCT GTTAAGTCAG TAATCCTTTG GGAGAGCGCT	240
161	TACTGAGTAT CTATGATATG CAAAGACCAA AGACCGAGGG GGATCCCTGG TGTAGAGCAA	300
163	GCACACACCT GGTTATTAGC TACCTGCCAC CCTGCTGGGC ATGCAACATA CATTGTCTCA	360
165	AATTCTAACC ACCCTGCAAG GCAAGCTTCC TTGTTCTTTT AAAGAAGAAA AGTAGACCAG	420
167	CAAGATTGAT TTGCTCAAGA TTACACAGCC TGGAATCTTG TCATGGGCAT GTCTGACTCT	480
169	GATAGCAATA CCCTCAAAGA AACTGTCAGA GAAGACTCAA TAAGAAGAAA GTTGAGATAC	540
	AGAAACCAAC AGGAGAAGGT AATTCAGAAA TTCAAACAGA GTGGGTGTGA TGGGAAGAAT	600
	TCATTAATAA GAAGGTACCT CTGTAGAAAA ATCTTACCAG ACAGTCTGGA AGTGAAGGAA	660
	ACAGCCAATA GTC	673
	(2) INFORMATION FOR SEQ ID NO: 5:	0,0
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 358 base pairs	
182	• •	
183	, ·	
184		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:	
	GTCACTGCAC ATTAAGATGG AGCCCGAAGA GCCACACTCC GAGGGGGCAT CGCAGGAGGA	60
	TGGGGCTCAA GGTGCCTGGG GCTGGGCACC CCTAAGTCAC GGCTCTAAGG AGAAAGCTCT	120
	CTTCCTGCCC GGCGGAGCCC TCCCCTCCCC CCGGATCCCC GTGCTTTCCC GAGAGGGGAG	180
	GACCAGAGAC CGGCAGATGG CTGCAGCGCT CCTCACTGCC TGGTCCCAGA TGCCAGTGAC	240
	TTTCGAGGAT GTGGCCTTGT ACCTCTCCCG GGAGGAGTGG GGACGGCTGG ACCACACGCA	300
	GCAGAACTTC TACAGGGAAT GTCCTGCAGA AGAAAAATGG GCTGTCACTG GGCTTTCC	358
	(2) INFORMATION FOR SEQ ID NO: 6:	
203	• •	
204	•	
205		
206	· · · · · · · · · · · · · · · · · · ·	
207		
209		
	CACAGATGTA GCTTCCTCAC TGG	23
	(2) INFORMATION FOR SEQ ID NO: 7:	
216	• • •	
217	•	
218	, ,	
219		
220		
222		
	CTGGAGTACA ATGTCAGTGT TTACACTGTC AAGGATGACA AGGAAAGTGT CCCTATCTCT	60
226	GATACCATCA TCCCAGCTGT TCCTCCTCCC ACTGACCTGC GATTCACCAA CATTGGTCCA	120
228	GACACCATGC GTGTCACCTG GGCTCCACCC CCATCCATTG ATTTAACCAA CTTCCTGGTG	180
230	CGTTACTCAC CTGTGAAAAA TGAGGAAGAT GTTGCAGAGT TGTCAATTTC TCCTTCAGAC	240
232	AATGCAGTGG TCTTAACAAA TCTCCTGCCT GGTACAGAAT ATGTAGTGAG TGTCTCCAGT	300
234	GTCTACGAAC AACATGAGAG CACACCTCTT AGAGGAAGAC AGAAAACAGG TCTTGATTCC	360
236	CCAACTGGCA TTGACTTTTC TGATATTACT GCCAACTCTT TTACTGTGCA CTGGATTGCT	420
238	CCTCGAGCCA CCATCACTGG CTACAGGATC CGCCATCATC CCGAGCACTT CAGTGGGAGA	480
240	CCTCGAGAAG ATCGGGTGCC CCACTCTCGG AATTCCATCA CCCTCACCAA CCTCACTCCA	540
242	GGCACAGAGT ATGTGGTCAG CATCGTTGCT CTTAATGGCA GAGAGGAAAG TCCCTTATTG	600
244	ATTGGCCAAC	610

	(2) INFORMATION FOR SEQ ID NO: 8:								
249	(i) SEQUENCE CHARACTERISTICS:								
250	(A) LENGTH: 1649 base pairs								
251	(B) TYPE: nucleic acid								
252	(C) STRANDEDNESS: single								
253	(D) TOPOLOGY: linear								
255	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:								
	CGGCAGCCAG CCTATTCTTT GGCCGGGTCG GTGCGAGTGG TCGGCTGGGC AGAGTGCACG	60							
	CTGCTTGGCG CCGCAGGTGA TCCCGCCGTC CACTCCCGGG AGCAGTGATG TTGGGCAACT	120							
	CTGCGCCGGG GCCTGCGACC CGCGAGGCGG GCTCGGCGCT GCTAGCATTG CAGCAGACGG	180							
	CGCTCCAAGA GGACCAGGAG AATATCAACC CGGAAAAGGC AGCGCCCGTC CAACAACCGC	240							
	GGACCCGGGC CGCGCTGGCG GTACTGAAGT CCGGGAACCC GCGGGGTCTA GCGCAGCAGC	300							
	AGAGGCCGAA GACGAGACGG GTTGCACCCC TTAAGGATCT TCCTGTAAAT GATGAGCATG	360							
	TCACCGTTCC TCCTTGGAAA GCAAACAGTA AACAGCCTGC GTTCACCATT CATGTGGATG	420							
	AAGCAGAAAA AGAAGCTCAG AAGAAGCCAG CTGAATCTCA AAAAATAGAG CGTGAAGATG	480							
	CCCTGGCTTT TAATTCAGCC ATTAGTTTAC CTGGACCCAG AAAACCATTG GTCCCTCTTG	540							
	ATTATCCAAT GGATGGTAGT TTTGAGTCAC CACATACTAT GGACATGTCA ATTGTATTAG	600							
	AAGATGAAAA GCCAGTGAGT GTTAATGAAG TACCAGACTA CCATGAGGAT ATTCACACAT	660							
	ACCTTAGGGA AATGGAGGTT AAATGTAAAC CTAAAGTGGG TTACATGAAG AAACAGCCAG	720							
	ACATCACTAA CAGTATGAGA GCTATCCTCG TGGACTGGTT AGTTGAAGTA GGAGAAGAAT	780							
	ATAAACTACA GAATGAGACC CTGCATTTGG CTGTGAACTA CATTGATAGG TTCCTGTCTT	840							
	CCATGTCAGT GCTGAGAGGA AAACTTCAGC TTGTGGGCAC TGCTGCTATG CTGTTAGCCT	900							
	CAAAGTTTGA AGAAATATAC CCCCCAGAAG TAGCAGAGTT TGTGTACATT ACAGATGATA	960							
289	CCTACACCAA GAAACAAGTT CTGAGAATGG AGCATCTAGT TTTGAAAGTC CTTACTTTTG	1020							
291	ACTTAGCTGC TCCAACAGTA AATCAGTTTC TTACCCAATA CTTTCTGCAT CAGCAGCCTG	1080							
293	CAAACTGCAA AGTTGAAAGT TTAGCAATGT TTTTGGGAGA ATTAAGTTTG ATAGATGCTG	1140							
295	ACCCATACCT CAAGTATTTG CCATCAGTTA TTGCTGGAGC TGCCTTTCAT TTAGCACTCT	1200							
297	ACACAGTCAC GGGACAAAGC TGGCCTGAAT CATTAATACG AAAGACTGGA TATACCCTGG	1260							
299	AAAGTCTTAA GCCTTGTCTC ATGGACCTTC ACCAGACCTA CCTCAAAGCA CCACAGCATG	1320							
301	CACAACAGTC AATAAGAGAA AAGTACAAAA ATTCAAAGTA TCATGGTGTT TCTCTCCTCA	1380							
303	ACCCACCAGA GACACTAAAT CTGTAACAAT GAAAGACTGC CTTTGTTTTC TAAGATGTAA	1440							
305	ATCACTCAAA GTATATGGTG TACAGTTTTT AACTTAGGTT TTTAATTTTA CAATCATTTC	1500							
307	TGAATACAGA AGTTGTGGCC AAGTACAAAT TATGGTATCT ATTACTTTTT AAATGGTTTT	1560							
309	AATTTGTATA TCTTTTGTAT ATGTATCTGT CTTAGATATT TGGCTAATTT TAAGTGGTTT	1620							
311	TGTTAAAGTA TTAATGATGC CAGCTGCCG	1649							
314	(2) INFORMATION FOR SEQ ID NO: 9:								
316	(i) SEQUENCE CHARACTERISTICS:								
317	(A) LENGTH: 175 base pairs								
318	(B) TYPE: nucleic acid								
319	(C) STRANDEDNESS: single								
320	(D) TOPOLOGY: linear								
322	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9:								
324	ACCCACTCGT GAGTCCAACG GTCTTTTCTG CAGAAAGGAG GACTTTCCTT TCAGGGGTCT	60							
326	TTCTGGGGCT CTTACTATAA AAGGGGACCA ACTCTCCCTT TGTCATATCT TGTTTCTGAT	120							
328	GACAAAAAT AACACATTGT TAAAATTGTA AAATTAAAAC ATGAAATATA AATTA	175							
331	(2) INFORMATION FOR SEQ ID NO: 10:								
333	(i) SEQUENCE CHARACTERISTICS:								
334	(A) LENGTH: 166 base pairs								
335	(B) TYPE: nucleic acid								

336 337		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10:	
	GTTTCGCTCC ACATTCATCC TTTCTTACTG GGCACTGATG TTGAGAGCAT CAGGCAGGGT	60
	ATAATGTTAT GTTGCAGTAA CAAACACCCT CAATATCTCA GTGGCTTAAA ATGACAACGA	120
	TCTTTTTTTT GTTTGTTTGT TTATGCTCTA TATCACCCAG GGATCA	166
348	(2) INFORMATION FOR SEQ ID NO: 11:	
	(i) SEQUENCE CHARACTERISTICS:	
351	(A) LENGTH: 107 base pairs	
352		
353	· ·	
354		
356	, , , , , , , , , , , , , , , , , , , ,	
	TGCTCTGCCC CACATCTGAA CAAGCTAATA AGAAAGCCCG ATGTTCTTTC CTTTGGTGCC	60
	ATTGGGAAAT TCAAACCATG CACAACTCTG CCTGTATGAA GGGCGCA	107
	(2) INFORMATION FOR SEQ ID NO: 12:	
365	(i) SEQUENCE CHARACTERISTICS:	
366	, ,	
367	, ,	
368		
369	(D) TOPOLOGY: linear	
371	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 12: CAACCTTAGC CCCTCTCCTC TTCTTCACGA TGCCATTCTG CCATTTCTGT TTTGTGGTAG	60
	ACAGGTTGGC CCAGGCACTC TAAGGCCCAG GCTGGCACAG GTTGGCCCAG GCACTTCAAG	120
	CCTAAGTCCA TTTACAGTTT CTATTCCATC TCTTCCTAAA GAAGAGGAGA GGGGCTAAGG	180
379		183
	(2) INFORMATION FOR SEQ ID NO: 13:	103
384		
385		
386	• •	
387	· ·	
388	(D) TOPOLOGY: linear	
390	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 13:	
392	AAACAAACGT CTTTGGGTAA AATTCTATTT CTTTTAATGT TTTAAAATAT TTGTAGTCAC	60
394	TAATTGTAAG TCATATTCCT CTTTGTCCAG CT	92
397	(2) INFORMATION FOR SEQ ID NO: 14:	
399	(i) SEQUENCE CHARACTERISTICS:	
400	(A) LENGTH: 182 base pairs	
401	(B) TYPE: nucleic acid	
402	(C) STRANDEDNESS: single	
403	(D) TOPOLOGY: linear	
405	• •	
	GATGTAATTA AAGCTGTAGA TGAGGGCTAT CGACTGCCAC CCCCCATGGA CTGCCCAGCT	60
	GCCTTGTATC AGCTGATGCT GGACTGCTGG CAGAAAGACA GGAACAACAG ACCCAAGTTT	120
	GAGCAGATTG TTAGTATTCT GGACAAGCTT ATCCGGAATC CCGGCAGCCT GAAGGATCAT	180
413		182
418	(2) INFORMATION FOR SEQ ID NO: 15:	
418	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 174 base pairs	
417	(W) DENGIN: I/4 Dase Parts	

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/974,546

DATE: 11/28/2001 TIME: 11:03:06

Input Set : N:\Crf3\RULE60\09974546.txt Output Set: N:\CRF3\11282001\1974546.raw

L:30 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:] L:31 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]